Amendments to the Claims:

Without prejudice, this listing of the claims replaces all prior versions and listings of the claims in the present application:

Listing of Claims:

1. (Currently Amended) A device for determining a boiling point of a [[hydraulic]] fluid [[of a hydraulic system]], comprising:

an electrical heating element situated in the fluid, the electrical heating element acting as an actuator of a micropump and being situated in a <u>fluid</u>-chamber thereof, wherein, according to a thin film technique, the heating element is applied to a substrate which is provided with a cover to form [[a]] <u>the</u> chamber; and

a current measuring unit to infer an instantaneous electrical resistance of the heating element.

- 2. (Original) The device according to claim 1, wherein the device is for determining a boiling point of a brake fluid of a braking system in a motor vehicle.
- 3. (Canceled)
- 4. (Currently Amended) The device according to claim [[3]] 1, wherein the chamber has an inlet and an outlet which are situated in one of the substrate and the cover.
- 5. (Currently Amended) The device according to claim [[3]] 1, wherein the substrate is composed of at least one of a semiconductor, heat-resistant glass, a ceramic and plastic, and the cover is composed of at least one of a semiconductor, heat-resistant glass, a ceramic and plastic.
- 6. (Original) The device according to claim 5, wherein the substrate is composed of silicon.
- 7. (Original) The device according to claim 5, wherein the cover is composed of silicon.
- 8. (Original) The device according to claim 1, wherein the heating element is produced from one of aluminum and platinum, and is coated by a dielectric.
- 9. (Original) The device according to claim 1, further comprising a PTC resistor element situated in the chamber.

- 10. (Original) The device according to claim 1, wherein the device has a multilayer construction.
- 11. (Currently Amended) A method for determining a boiling point of a fluid [[of a hydraulic system]] using a device having a heating element, applied to a substrate <u>in a fluid-chamber</u>, the method comprising:

conveying the fluid into [[a]] the chamber of a micropump with the aid of the heating element;

heating the fluid to boiling using the heating element;

determining an electrical resistance of the heating element by measuring an instantaneous electrical current at the heating element; and

thereafter ascertaining the boiling point of the fluid with the aid of the electrical resistance of the heating element and its known [[at least one of a temperature characteristic and a resistance characteristic of the heating element]] temperature/resistance characteristics.

- 12. (Original) The method according to claim 11, wherein after an abrupt change in the electrical resistance of the heating element, a heating performance of the heating element is lowered.
- 13. (Original) The method according to claim 11, further comprising operating the heating element in a pulsed manner at regular intervals.

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